RAINCOP OPTICAL TEST CHART
Model No. RAINCOP Serial No. 0

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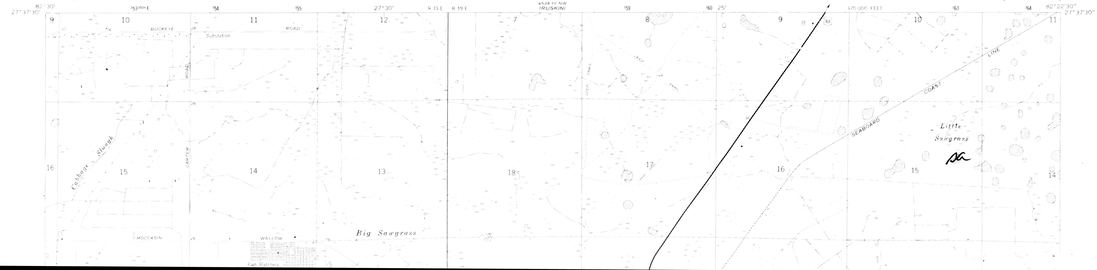
Model No. RAINCOP Serial No. 0

I 49.89/2:85 (15) map B 18

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

STATE OF FLORIDA

PARRISH QUADRANGLE
FLORIDA--MANATEE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)



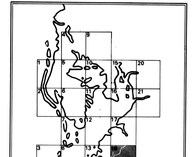
MAPB18

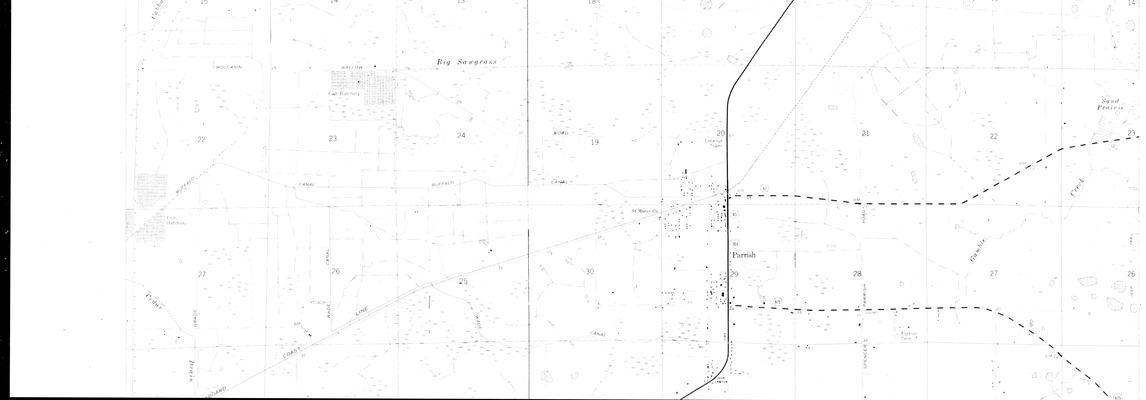
ORIGINAL

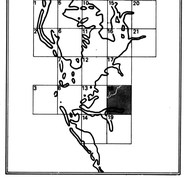
TAMPA BAY ENVIRONMENTAL ATLAS

WATER RESOURCES

PARRISH







Scale 1:24,000

1984

TOPICAL MAPS IN THIS ATLAS:

A. BIOLOGICAL RESOURCES
B. WATER RESOURCES

Produced by U.S. Fish and Wildlife Service
Projection and 1,000 meter grid, zone 17: Universal Transverse Mercator
10,000-foot grid ticks based on Florida coordinate system, east and west zones

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There is no map A19 due to a lack of data.

Overlay material compiled in 1984 from latest available data obtained from Federal, State and Local government agencies and other sources.

There is no map A19 due to a lack of data.

LEGEND

MEAN ANNUAL MID-DEPTH SPECIFIC CONDUCTIVITY ISOPLETH (WATER QUALITY) CONTOUR MAP

Five year mean annual specific conductivity September 1978 - August 1983 (mmhos)

POINT SOURCE DISCHARGES *

Industrial Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or in millions of gallons per day (mgd).

Municipal Point Source Discharge. Q is permitted capacity in total gallons per day (tgd) or millions of gallons per day (mgd).

DREDGE SPOIL DISPOSAL SITES

TIDE STATION *
(National Ocean Service)

Active tide station. The tide station number is listed next to the symbol.

Inactive tide station location. The tide station number is listed next to the symbol.

WATER QUALITY SAMPLING STATION *
(Hillsborough County Environmental Protection Commission)
Five year seasonal means, Sept. 1978 - Aug. 1983

SCALE 1:24000

0 1000 2000 3000 4000 5000 6000 7000 FEET

0 1 KILOMETER

0 1 MILE

THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY THE U.S. FISH AND WILDLIFE SERVICE, COASTAL ECOSYSTEMS PROGRAM, SLIDELL, LA.

N.O.S. TIDE STATIONS Index of tide stations for the state of Florida. National Ocean Service, Rockville, Md. 1981

INACTIVE TIDE STATION

101 Inactive tide station location. The tide station number is listed next to the symbol.

102 Inactive tide station location. The tide station number is listed next to the symbol.

WATER QUALITY SAMPLING STATION *

10 (Hillsborough County Environmental Protection Commission)
Five year seasonal means, Sept. 1978 - Aug. 1983

BATHYMETRY

2 The contour interval is 2.0 meters with an initial 1.0 meter supplemental contour line added to better define shoals and inshore tidal flats.

INTERTIDAL ZONE

This zone demarcates the area exposed and flooded by the tides and occurs between the line and the shore.

GENERALIZED SEDIMENT MAP

- Sand
- Shelly Sand
- Silty Sand
- Clayey Sand
- Sandy Clay
- Silt

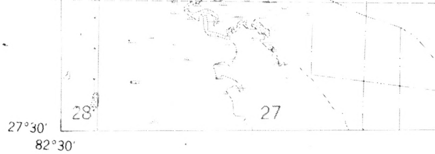
NET TIDAL CURRENT

Resultant tidal current. The direction is indicated by the arrow and the discharge range is feet per second

- 0.01 - 0.10 ft/sec
- 0.11 - 0.20 ft/sec
- 0.21 - 0.30 ft/sec
- 0.31 - 0.50 ft/sec
- > 0.50 ft/sec

F/S FRESHWATER/SALTWATER INTERFACE

(U.S. Geological Survey 1975)
250 mg/l line of equal chloride concentration in the upper part of Floridan aquifer



THE TAMPA BAY ENVIRONMENTAL ATLAS WAS PRODUCED BY TH
WILDLIFE SERVICE, DIVISION OF BIOLOGICAL SERVICES NATIONAL
ECOSYSTEMS TEAM (FWS/OBS) FOR COASTAL PLANNERS, DECISI
AND THE GENERAL PUBLIC, TO DETERMINE AND EVALUATE CHAN
RESOLVE CONFLICTS AMONG LAND USES, FISH AND WILDLIFE RE
AND THE MAINTENANCE OF ECOLOGICAL DIVERSITY. THE STUDY
A MAJOR PORTION OF THE COASTAL COUNTIES OF PINELLAS, HIL
MANATEE, AND A SMALL PORTION OF SARASOTA. THERE IS NO A
DESIGN OR PRODUCTS OF THIS STUDY, TO DEFINE THE LIMITS O
JURISDICTION OF ANY FEDERAL, STATE, OR LOCAL GOVERNMENT
THE GEOGRAPHICAL SCOPE OF THE REGULATORY PROGRAMS OF
AGENCIES.

THIS MAP HAS BEEN COMPILED FROM A VARIETY OF SOURCE MA
INCLUDING MAPS, AERIAL PHOTOS, AND REPORTS. SINCE MANY
CONTAINED GENERALIZED LOCATIONS OF RESOURCES AND OTHE
FEATURES, THE USER SHOULD NOT RELY ON THESE MAPS FOR P
MEASUREMENTS OF DISTANCES OR AREAS.

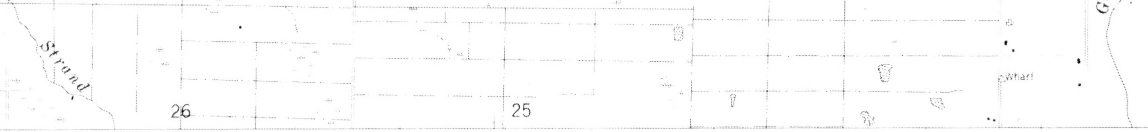
PRIMARY SOURCES OF MAPPED INFORMATION

SALINITY: Conductivity for Tampa Bay water quality sampling stations Sept. 1978 - August 1983. Hillsborough County Environmental Protection Commission.

POINT SOURCE DISCHARGES: Computer printout of industrial and municipal point source discharges in West Central Florida. Florida Dept. of Environmental Regulation, 1983.

DREDGE SPOIL DISPOSAL AREAS: Dredge and Spoil easement location maps. Florida Dept. of Natural Resources.

MICROCOPY
(ANSI



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TERIALS
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PRECISE

N.O.S. TIDE STATIONS: Index of tide stations for the state of Florida. National Ocean Service, Rockville, Md. 1981.

WATER QUALITY: Total chlorophyll, conductivity, turbidity, temperature and total nitrogen data for Tampa Bay water quality stations, Sept. 1978 - August 1983. Hillsborough County Environmental Protection Commission.

BATHYMETRIC: Bathymetric map to St. Petersburg Quadrangle, N.O.S. 1978.

INTERTIDAL ZONE: Nautical Chart #'s 11410, 11413, 11414 and 11425. N.O.S., Rockville, Md. 1983.

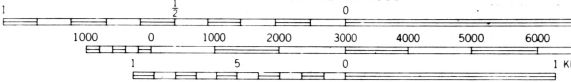
SEDIMENTS: Sediments, oceanographic observations and Floristic data for Tampa Bay, Florida and adjacent waters, 1961-1965, Taylor and Saloman, 1969.

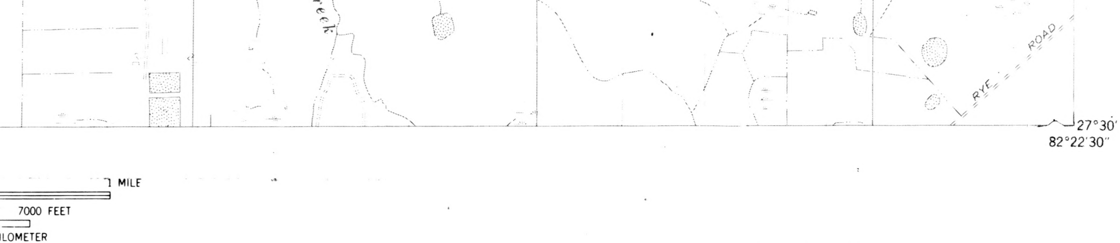
TIDAL CURRENTS: Changes in tidal flow, circulation and flushing caused by dredge and fill in Tampa Bay, Florida. U.S. Geological Survey Open File Report #84-447. Goodwin, 1984.

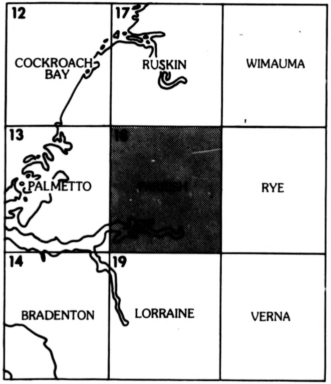
FRESHWATER-SALTWATER INTERFACE: Position of the Freshwater-Saltwater interface in the upper part of the Floridan aquifer, Southwest Florida, 1979. U.S.G.S. water resources open-file report 82-90. Causseaux and Fretwell, 1982.

FOR COMPLETE REFERENCE SEE MAP NARRATIVE

SCALE 1:24 000







Note: Specific conductivity values on the supplemental legend should be in µmhos.

→	0.11 - 0.20 ft/sec
→	0.21 - 0.30 ft/sec
→	0.31 - 0.50 ft/sec
→	> 0.50 ft/sec
F ▬ ▬ ▬ ▬ ▬ S	**FRESHWATER/SALTWATER INTERFACE** (U.S. Geological Survey 1979) 250 mg/l line of equal chloride concentration in the upper part of Floridan aquifer.

**Symbols appearing with numbers are described more fully in the narrative*

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